

MED IN MEDICAL INNOVATIONS GMBH, 81254 MUNICH

5 Device for generating a continuous positive airway
 pressure (CPAP device)

PATENT CLAIMS

- 10 1. Device for generating a continuous positive airway
 pressure (CPAP device), in particular a nasal CPAP
 device (nCPAP device), with:
- 15 a hollow body (10) in which an overpressure can be
 built up;
- 20 a first opening (20) provided in a first side wall
 of the hollow body (10) and used for introduction
 of a respiratory gas flow (A) directed into the
 hollow body (10) and for removal of the exhaled
 respiratory gas flow (B); and
- 25 an attachment piece (30) which can be fitted on
 the hollow body (10) in order to connect the
 hollow body (10) to a nosepiece and/or mouthpiece
 (100);
- characterized by
- 30 a second opening (71) provided in a second side
 wall of the hollow body (10) and used for
 introduction of a medicament flow (M) directed
 into the hollow body (10).
- 35 2. Device according to Claim 1, characterized in that
 a spacer (40) is provided which can be fitted on
 the hollow body (10) and on which a flow nozzle
 (50) for directing the respiratory gas flow (A) to
 the first opening (20) can be arranged.

3. Device according to Claim 1 or 2, characterized in that the hollow body (10) basically has the shape of a hollow cylinder on whose one end surface (10a) the attachment piece (30) can be fitted and on whose circumferential surface the first and second openings (20; 71) are provided.
4. Device according to Claim 3, characterized in that the first and second openings (20; 71) lie at approximately the same height, so that the respiratory gas flow (A) directed into the hollow body (10) and the medicament flow (M) directed into the hollow body (10) at least partially intersect in an area (80).
5. Device according to one of the preceding claims, characterized in that a pipe (90) is inserted into the second opening (71) and protrudes into the inside of the hollow body (10).
6. Device according to Claim 5, characterized in that the pipe (90) protrudes so far into the inside of the hollow body (10) that it forms a break-up edge for the respiratory gas flow (A) directed into the hollow body (10).
7. Device according to Claim 5 or 6, characterized in that the pipe (90) can be plugged in.
8. Device according to one of the preceding claims, characterized in that the second opening (71) can be closed off by a closure means, preferably a lid or slide.
9. Device according to one of preceding Claims 3 to 8, characterized in that the first and second openings (20; 71) are arranged at an acute angle to one another on the circumferential surface.

10. Device according to one of preceding Claims 3 to 9, characterized in that the attachment piece (30) consists of a stopper which can be at least partially inserted into the hollow body (10) at the end surface (10a).
11. Device according to one of the preceding claims, characterized in that the attachment piece (30) has one or two passages which correspond to corresponding respiratory gas passages of the nosepiece and/or mouthpiece (100).
12. Device according to Claim 11, characterized in that one or two outwardly pointing pipe stubs (35) for introduction into the nosepiece and/or mouthpiece (100) are provided in the passages of the attachment piece (30).
13. Device according to one of the preceding claims, characterized in that the attachment piece (30) can be turned relative to the hollow body (10) about at least one defined axis and has a closure means with which the second opening (71) can be closed by said turning.
14. Device according to Claim 13, characterized in that the defined axis lies substantially perpendicular to the axis of the respiratory gas flow (A) and medicament flow (M) directed into the hollow body (10).
15. Device according to one of preceding Claims 2 to 14, characterized in that the spacer (40) has a substantially annular or cup-shaped configuration.
16. Device according to Claim 15, characterized in that the flow nozzle (50) is guided through a hole in the side wall of the annular shape or cup shape

and is oriented substantially perpendicular to the first opening (20).

- 5 17. Device according to Claim 16, characterized in that the flow nozzle (50) projects by a predetermined length into the inside of the annular shape or inside of the cup shape.
- 10 18. Device according to one of the preceding claims, characterized in that a third opening for attachment of a pressure gauge is provided in one side wall of the hollow body (10), preferably a side wall different than the side wall with the first opening (20).